

From: [Au, Doreen](#)
To: [Vince Centioni](#)
Cc: [Scott McNair](#); [Ryan Dorsey](#)
Subject: RE: A few follow-up questions
Date: Tuesday, August 15, 2017 11:46:00 AM
Attachments: [image001.png](#)

Thank you Vince,
I will include these spreadsheets in the report. -Doreen

From: Vince Centioni [<mailto:V.Centioni@3vsigmausa.com>]
Sent: Tuesday, August 15, 2017 9:39 AM
To: Au, Doreen <Au.Doreen@epa.gov>
Cc: Scott McNair <S.McNair@3vsigmausa.com>; Ryan Dorsey <R.Dorsey@3vsigmausa.com>
Subject: RE: A few follow-up questions
Importance: High

I will look for the hard copies, but I believe John Schroer submitted the electronic files to SC DHEC/EPA so they could see each cell formula etc. See attached email I sent to John Schroer. In it contains his Water 9 files, and the equation you are referring to.

Vince Centioni
Environmental Manager

cid:image001.png@01D15E93.E9A80080



888 Woodstock St.
Georgetown, SC 29440
Office: 843-520-5128
Mobile: 843-240-0577
Email: v.centioni@3VSigmaUSA.com

From: Au, Doreen [<mailto:Au.Doreen@epa.gov>]
Sent: Tuesday, August 15, 2017 11:17 AM
To: Vince Centioni
Subject: RE: A few follow-up questions

Thank you Vince,

Just one thing I noticed missing, if you have a copy of it, it would be useful for us to put into the report.

In the April 2011 revised Notification of Compliance Status Report for the MON, there is an appendix H that was submitted regarding the use of your biological treatment for methanol. In appendix H, there is a reference to Addendum 3, Equation 1 of 63.2485. This is not included in NEIC's copy. It only contains a cover sheet for the addendum, but no attachment.

Thank you,

Doreen

From: Vince Centioni [<mailto:V.Centioni@3vsigmausa.com>]
Sent: Tuesday, August 15, 2017 7:51 AM
To: Au, Doreen <Au.Doreen@epa.gov>
Cc: Scott McNair <S.McNair@3vsigmausa.com>; Ryan Dorsey <R.Dorsey@3vsigmausa.com>
Subject: RE: A few follow-up questions
Importance: High

- V321: 4"x4" PVCV Open @ 18"WC vac opens @: 6"WC
- TK510: 3" PVCV Opens @: 12"WC vac opens @: 1.3"WC
- TK510: 8" PSV Opens @: 12"WC full open @: 24"WC
- V405: 4"x4" PVCV Opens @: 1psi vac opens @: 1"WC

'Let me know if you need anything else

Thanks

Vince Centioni
Environmental Manager

cid:image001.png@01D15E93.E9A80080



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From: Au, Doreen [<mailto:Au.Doreen@epa.gov>]

Sent: Tuesday, July 25, 2017 4:22 PM

To: Vince Centioni

Subject: RE: A few follow-up questions

Thank you for the heads up. -Doreen

From: Vince Centioni [<mailto:V.Centioni@3vsigmausa.com>]

Sent: Monday, July 24, 2017 5:28 PM

To: Au, Doreen <Au.Doreen@epa.gov>

Subject: Re: A few follow-up questions

I mistakenly repeated the flow out to the POTW & river in 2015 for 2016. I'll amend that tomorrow.

Fraction WW discharges to
POTW 2016

Total annual 2016 to POTW	14600385	14.600	mg	47.1	%
Total annual 2016 to Sampit	16366111	16.366	mg	52.9	%
Total discharge 2016	30966496	30.966	mg		

Sent from my iPhone

On Jul 24, 2017, at 5:30 PM, Vince Centioni <V.Centioni@3vsigmausa.com> wrote:

So based on the modeling from Water 9 see below:

2016 TRANSFERS TO WWTP TOTALS			Qty Discharge	Qty Air	Qty Bio
MeCl	212	lbs	0	157	55
MEOH	104392	lbs	47	1323	102970
Xylene	2150	lbs	0	1459	690
2015 TRANSFERS TO WWTP TOTALS			Qty Discharge	Qty Air	Qty Bio
MeCl	468	lbs	0	346	122
MEOH	93869	lbs	42	1189	92590
Xylene	2026	lbs	0	1375	651
2014 TRANSFERS TO WWTP TOTALS			Qty Discharge	Qty Air	Qty Bio
MeCl	319	lbs	0	236	83
MEOH	74375	lbs	34	942	73362
Xylene	1078	lbs	0	732	346
2013 TRANSFERS TO WWTP TOTALS			Qty Discharge	Qty Air	Qty Bio

MeCl	273	lbs	0	202	71
MEOH	33532	lbs	15	425	33075
Xylene	751	lbs	0	510	241

2012 TRANSFERS TO WWTP TOTALS

			Qty Discharge	Qty Air	Qty Bio
MeCl	465	lbs	0	344	121
MEOH	65076	lbs	29	825	64189
Xylene	1290	lbs	0	876	414

'Thanks Vince

Vince Centioni

Environmental Manager

<image001.png>

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Email: v.centioni@3VSigmaUSA.com

From: Au, Doreen [<mailto:Au.Doreen@epa.gov>]

Sent: Monday, July 24, 2017 4:25 PM

To: Vince Centioni

Subject: RE: A few follow-up questions

Thank you! -Doreen

From: Vince Centioni [<mailto:V.Centioni@3vsigmausa.com>]

Sent: Monday, July 24, 2017 2:22 PM

To: Au, Doreen <Au.Doreen@epa.gov>

Cc: Scott McNair <S.McNair@3vsigmausa.com>; Ryan Dorsey <R.Dorsey@3vsigmausa.com>;

Schneider, Matthew <Schneider.Matthew@epa.gov>; Alex Llyod <a.lloyd@3vsigmausa.com>; Paul

Hancock <P.Hancock@3vsigmausa.com>

Subject: RE: A few follow-up questions

Importance: High

Ignore the V-586 batches on these sheets. Some of the batches were re-stripped. You need to reference my WW Transfer Logs for V-586. I also attached the Water 9 data submitted annually in my TRI reports. The models are conducted every 3 years in correlation to our National Emissions Inventory Report submitted to SC DHEC. The last model was conducted in 2014.

Fraction WW discharges to POTW 2012

Total annual 2012 to POTW	12852696	12.853	mg	34.7	%
Total annual 2012 to Sampit	24239525	24.240	mg	65.3	%
Total discharge 2012		37.092	mg		

Water 9 Data 2012

	Inlet rate lb/hr	Outlet rate lb/hr	Qty to air lb/hr	Qty to bio lb/hr	Outlet rate % of inlet	Qty to air % of inlet	Qty to bio % of inlet
MeCl	0.024	0.00	0.0155	0.0083	0.0010%	74%	26%
MEOH	5.82	0.00	0.07	5.74	0.045%	1%	99%
Xylene	0.28	0.00	0.19	0.09	0.000%	68%	32%
							99.9%

Fraction WW discharges to POTW 2013

Total annual 2013 to POTW	12327871	12.328	mg	34.2	%
Total annual 2013 to Sampit	23720000	23.720	mg	65.8	%
Total discharge 2013		36.048	mg		

Water 9 Data 2013

	Inlet rate	Outlet rate	Qty to air	Qty to bio	Outlet rate	Qty to air	Qty to bio
--	------------	-------------	------------	------------	-------------	------------	------------

	lb/hr	lb/hr	lb/hr	lb/hr	% of inlet	% of inlet	% of inlet
MeCl	0.024	0.00	0.0155	0.0083	0.0010%	74%	26%
MEOH	5.82	0.00	0.07	5.74	0.045%	1%	99%
Xylene	0.28	0.00	0.19	0.09	0.000%	68%	32%
							99.9%

Fraction WW discharges to POTW 2014

Total annual 2014 to POTW	12936430	12.936	mg	39.1	%
Total annual 2014 to Sampit	20168905	20.169	mg	60.9	%
Total discharge 2014		33.105	mg		

Water 9 Data 2014

	Inlet rate	Outlet rate	Qty to air	Qty to bio	Outlet rate	Qty to air	Qty to bio
	lb/hr	lb/hr	lb/hr	lb/hr	% of inlet	% of inlet	% of inlet
MeCl	0.024	0.00	0.0155	0.0083	0.0010%	74%	26%
MEOH	5.82	0.00	0.07	5.74	0.045%	1%	99%
Xylene	0.28	0.00	0.19	0.09	0.000%	68%	32%
							99.9%

Fraction WW discharges to POTW 2015

Total annual 2015 to POTW	14600385	14.600	mg	47.1	%
Total annual 2015 to Sampit	16366111	16.366	mg	52.9	%
Total discharge 2015	30966496	30.966	mg		

Water 9 Data 2015

	Inlet rate	Outlet rate	Qty to air	Qty to bio	Outlet rate	Qty to air	Qty to bio
	lb/hr	lb/hr	lb/hr	lb/hr	% of inlet	% of inlet	% of inlet
MeCl	0.024	0.00	0.0155	0.0083	0.0010%	74%	26%
MEOH	5.82	0.00	0.07	5.74	0.045%	1%	99%
Xylene	0.28	0.00	0.19	0.09	0.000%	68%	32%
							99.9%

Fraction WW discharges to POTW 2016

Total annual 2016 to POTW	14600385	14.600	mg	47.1	%
Total annual 2016 to Sampit	16366111	16.366	mg	52.9	%
Total discharge 2016	30966496	30.966	mg		

Water 9 Data 2016

	Inlet rate	Outlet rate	Qty to air	Qty to bio	Outlet rate	Qty to air	Qty to bio
	lb/hr	lb/hr	lb/hr	lb/hr	% of inlet	% of inlet	% of inlet
MeCl	0.024	0.00	0.0155	0.0083	0.0010%	74%	26%
MEOH	5.82	0.00	0.07	5.74	0.045%	1%	99%
Xylene	0.28	0.00	0.19	0.09	0.000%	68%	32%
							99.9%

Hope this helps w/ your investigation

'Vince

From: Au, Doreen [<mailto:Au.Doreen@epa.gov>]

Sent: Monday, July 24, 2017 3:33 PM

To: Vince Centioni

Cc: Scott McNair; Ryan Dorsey; Schneider, Matthew; Alex Llyod; Paul Hancock

Subject: RE: A few follow-up questions

Hey Vince,

Would it also be possible to get the V584 analysis spread sheets for 2012-2016 in excel format as well?

Thank you. -Doreen

From: Vince Centioni [<mailto:V.Centioni@3vsigmausa.com>]

Sent: Monday, July 24, 2017 10:54 AM

To: Au, Doreen <Au.Doreen@epa.gov>

Cc: Scott McNair <S.McNair@3vsigmausa.com>; Ryan Dorsey <R.Dorsey@3vsigmausa.com>; Schneider, Matthew <Schneider.Matthew@epa.gov>; Alex Llyod <a.lloyd@3vsigmausa.com>; Paul Hancock <P.Hancock@3vsigmausa.com>

Subject: RE: A few follow-up questions

Importance: High

Doreen,

Scott gave me verbal permission to send you the excel files you requested.

'Thanks Vince

Vince Centioni

Environmental Manager

<image001.png>

888 Woodstock St.

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Email: v.centioni@3VSigmaUSA.com

From: Au, Doreen [<mailto:Au.Doreen@epa.gov>]

Sent: Monday, July 24, 2017 12:42 PM

To: Vince Centioni

Cc: Scott McNair; Ryan Dorsey; Schneider, Matthew; Alex Llyod; Paul Hancock

Subject: RE: A few follow-up questions

Thank you Vince,

For the wastewater tanks and for the accumulator that was receiving the overheads from the wastewater stripper, we wanted to know what the conservation vent pressure set points were. There were a few tanks that use a conservation vent instead of a gooseneck. These were the tanks Ryan and I went to visit in the field to see how they were vented.

I would like to compare the sample results, however I would have to get permission from Region 4 (I can talk with them), in addition, our samples results are going through our rigorous accreditation reviews and are not available (even to me) yet.

Thanks Vince.

From: Vince Centioni [<mailto:V.Centioni@3vsigmausa.com>]

Sent: Monday, July 24, 2017 10:35 AM

To: Au, Doreen <Au.Doreen@epa.gov>

Cc: Scott McNair <S.McNair@3vsigmausa.com>; Ryan Dorsey <R.Dorsey@3vsigmausa.com>; Schneider, Matthew <Schneider.Matthew@epa.gov>; Alex Llyod <a.lloyd@3vsigmausa.com>; Paul Hancock <P.Hancock@3vsigmausa.com>

Subject: RE: A few follow-up questions

Importance: High

Au Doreen,

- 1.) Once I get permission from Scott McNair I will send the excel files you are requesting.
- 2.) What data are you looking for? Specifically. I was under the impression 3V explained the logic behind how the tanks are currently vented (see John Schroer email, who last wrote 3V MON NOCS revision). Since you and Ryan Dorsey communicated verbally over the phone (see email) he may be better prepared to provide a time frame. He probably needs to know exactly what data you are requesting....
- 3.) Do you want to compare the sample results from the external lab, alongside our internal QC lab reports? I would like to see the EPA's analytical report and compare.

'Thanks Vince

Vince Centioni

Environmental Manager

<image001.png>

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Email: v.centioni@3VSigmaUSA.com

From: Au, Doreen [<mailto:Au.Doreen@epa.gov>]

Sent: Monday, July 24, 2017 11:48 AM

To: Vince Centioni

Cc: Scott McNair; Ryan Dorsey; Schneider, Matthew

Subject: A few follow-up questions

Good Morning Vince,

I hope you had a good weekend. I was going through and reviewing the documents that were provided, and the copy of the analysis provided for water to WWTP (including all tanks sorted by tank numbers) for 2015, appears to only have the first page from 2015, and the remaining pages have data from 2013. Can we please have the data from 2015? If it is possible could we also please have the data in excel for the other years? (2013-2016)

In addition, for any outstanding questions, including pressure set points for the conservation vents on wastewater tanks, and looking for written maintenance wastewater plans, etc. do you have an estimated timeframe for sending that data?

I would also again, welcome any additional information you would like to provide for NEIC to incorporate into their reports to Region 4 at this time.

Thank you,

Doreen

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